	Application No.	Applicant(s)
	Application No.	Approducts
Notice of Allowability	10/603,439	SHAYLOR ET AL.
House of Allowability	Examiner	Art Unit
	J. Derek Rutten	2192
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a) or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>2/2/07 amendment</u> .	•	•
2. X The allowed claim(s) is/are <u>1-6, 8, 9, 11-17, 19, 20, 22-28,</u>	30, 31, 33, and 34 (renumbered 1	<u>-28)</u> .
 Acknowledgment is made of a claim for foreign priority units. a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. Certified copies of the priority documents have		
Copies of the certified copies of the priority do	• • •	
International Bureau (PCT Rule 17.2(a)).	difficition have been received in the	· · · · · · · · · · · · · · · · · · ·
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application. itted. Note the attached EXAMINE	R'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give		ration is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 		2 049) attached
(a) ☐ including changes required by the Notice of Branspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date		5-946) allached
(b) ☐ including changes required by the attached Examiner'		Office action of
Paper No./Mail Date	s Amendment? Comment of in the	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the draw he header according to 37 CFR 1.12	vings in the front (not the back) of 1(d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGI	must be submitted. Note the CAL MATERIAL.
Attachment(s)	5 - 1 Notice of the control	D. do ad A. a. Waliff
1. Notice of References Cited (PTO-892)	5. Notice of Informal	· · · · · · · · · · · · · · · · · · ·
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🖂 Interview Summar Paper No./Mail D	y (<u>PTO-413), PTOL-413B</u> ate
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. X Examiner's Amend	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. Other	nent of Reasons for Allowance
	SUPERVISORY (MEMAN EXTRAMACION

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DETAILED ACTION

1. This action is in response to Applicant's submission filed 2/2/07, responding to the 11/27/06 Office action which detailed the rejection of claims 1-34. Claims 1, 12, 23, and 34 have been amended. Claims 1-34 remain pending in the application and have been fully considered by the examiner.

Response to Amendment/Arguments

- 2. Applicant's arguments in combination with the amendment, see page 11, filed 2/2/07, with respect to the drawing objection have been fully considered and are persuasive. The objection of the drawings has been withdrawn.
- 3. Applicant's arguments in combination with the amendment, see bottom of page 11, filed 2/2/07, with respect to the rejection under 35 U.S.C. § 101, have been fully considered and are persuasive. The rejection of claims 12-22 has been withdrawn.
- 4. Applicant's arguments, see pages 12-13, filed 2/2/07, with respect to the rejections under 35 U.S.C. § 103(a), have been fully considered and are persuasive. However, it is noted that the features upon which applicant relies (i.e., loading all methods and loading without a constant pool see bottom of page 12 through top of page 13) are not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). However, the examiner's amendment detailed below obviates the issue.

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EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Shun Yao, Reg. No. 59,242 on 3/8/07.

In the interview, it was agreed that an amendment to each of the independent claims 1,

12, 23, and 34 to reflect the invention as argued in Applicant's 2/2/07 amendment would

overcome the prior art of record. Such limitations were found in dependent claims 7, 10, 18, 21,

29, and 32, respectively. These dependent claims are therefore canceled as required by 37 CFR

1.75(c) since they would fail to further limit the parent claim.

The application has been amended as follows:

--Begin Examiner's Amendment--

In the Claims:

Please amend independent claims 1, 12, 23, and 34; and cancel claims 7, 10, 18, 21, 29, and 32

as follows:

1. (Currently Amended) A method for loading classes into memory, comprising:

loading class definitions into memory;

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wherein the class definitions are loaded from a serialized suite file defining a collection of classes;

wherein the class definitions contain metadata real class definitions for classes that are currently being loaded into memory, as well as metadata proxy class definitions for classes that are already loaded into memory; and

wherein the suite file is organized so that the class definitions for all of the classes in the suite file precede method code corresponding to the real class definitions, thereby facilitating loading the class definitions prior to loading the method code;

after the class definitions are loaded into memory, loading the method code for the elasses into memory;

wherein loading the method code into memory involves transforming the method code, wherein transforming the method code involves using the class definitions to resolve linkages in the method code so that the method code is ready for execution in memory without using a symbolic constant pool.

- 7. (Canceled)
- 10. (Canceled)
- 12. (Currently Amended) A computer-readable storage medium storing instructions that when executed by a computer cause the computer to perform a method for loading classes into memory, the method comprising:

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loading class definitions into memory;

wherein the class definitions are loaded from a serialized suite file defining a collection of classes;

wherein the class definitions contain metadata real class definitions for classes that are currently being loaded into memory, as well as metadata-proxy class definitions for classes that are already loaded into memory; and

wherein the suite file is organized so that the class definitions for all of the classes in the suite file precede method code corresponding to the real class definitions, thereby facilitating loading the class definitions prior to loading the method code;

after the class definitions are loaded into memory, loading the method code for the elasses into memory;

wherein loading the method code into memory involves transforming the method code, wherein transforming the method code involves using the class definitions to resolve linkages in the method code so that the method code is ready for execution in memory without using a symbolic constant pool.

- 18. (Canceled)
- 21. (Canceled)
- 23. (Currently Amended) An apparatus that loads classes into memory, comprising: a loading mechanism;

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wherein the loading mechanism is configure to load class definitions into memory;

wherein the class definitions are loaded from a serialized suite file defining a collection

of classes;

wherein the class definitions contain metadata real class definitions for classes that are

currently being loaded into memory, as well as metadata-proxy class definitions for classes that

are already loaded into memory; and

wherein the suite file is organized so that the class definitions for all of the classes in the

suite file precede method code corresponding to the real class definitions, thereby facilitating

loading the class definitions prior to loading the method code;

wherein after the class definitions are loaded into memory, the loading mechanism is

configured to load the method code-for the classes into memory;

wherein loading the method code into memory involves transforming the method code,

wherein transforming the method-code involves using the class definitions to resolve linkages in

the method code so that the method code is ready for execution in memory without using a

symbolic constant pool.

29. (Canceled)

32. (Canceled)

34. (Currently Amended) A computing device configured to load classes into non-volatile

memory, comprising:

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a computing engine;

a volatile memory;

a non-volatile memory;

a loading mechanism;

wherein the loading mechanism is configure to load class definitions into the volatile

memory;

wherein the class definitions are loaded from a serialized suite file defining a collection

of classes;

wherein the class definitions contain metadata real class definitions for classes that are

currently being loaded into non-volatile memory, as well as metadata-proxy class definitions for

classes that are already loaded into non-volatile memory; and

wherein the suite file is organized so that the class definitions for all of the classes in the

suite file precede the method code corresponding to the real class definitions, thereby facilitating

loading the class definitions prior to loading the method code;

wherein after the class definitions are loaded into volatile memory, the loading

mechanism is configured to load the method code-for the classes into the non-volatile memory;

wherein loading the method code into the non-volatile memory involves transforming the

method code, wherein transforming the method code involves using the class definitions to

resolve linkages in the method code so that the method code is ready for execution in the non-

volatile memory without using a symbolic constant pool.

--End Examiner's Amendment--

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Allowable Subject Matter

6. Claims 1-6, 8, 9, 11-17, 19, 20, 22-28, 30, 31, 33, and 34 are allowed.

7. The following is an examiner's statement of reasons for allowance:

The examiner indicated that this application would be in condition for allowance if the independent claims 1, 12, 23, and 34 are amended to include the features as argued by Applicant on pages 12 and 13, filed 2/2/07, including loading a suite file containing real class definitions, proxy class definitions, and method code associated with the real class definitions wherein the class definitions are used to resolve the methods without using a symbolic constant pool. The above features, taken in combination with all remaining features of the independent claim are not taught or suggested by the prior art of record. The applicant agreed to amend each of independent claims 1, 12, 23, and 34 as indicated by the examiner, to include the above limitations. The distinctions provided by the independent claims apply equally to all dependent claims. Thus all pending claims 1-6, 8, 9, 11-17, 19, 20, 22-28, 30, 31, 33, and 34 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Derek Rutten whose telephone number is (571)272-3703. The examiner can normally be reached on M-F 7:00-3:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tuan Q. Dam can be reached on (571)272-3695. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jdr

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